AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A predriver circuit comprising:
 a pull-up circuit having at least one pull-up device of a first device type; and
 a pull-down circuit having including at least one pull-down device of the first device type
 having a source coupled to ground, the pull-up circuit and the pull-down circuit to charge an output
 node and a complement output node in opposite directions to generate a differential predriver signal
 pair.
- 2. (Original) The predriver circuit of claim 1, wherein the pull-up device is cross-coupled to the pull-down device.
- 3. (Original) The predriver circuit of claim 1, wherein the pull-up device and the pull-down device comprise NMOS devices.
- 4. (Original) The predriver circuit of claim 1, wherein the pull-up circuit comprises: a first pull-up device having a gate coupled to a data input signal, a drain coupled to a power supply and a source coupled to the output node; and

a second pull-up device having a gate coupled to a complement input signal, a drain coupled to the power supply and a source coupled to the complement output node.

- 5. (Original) The predriver circuit of claim 1, wherein the pull-down circuit comprises: a first pull-down device having a gate coupled to a complement input signal, a drain coupled to the output node and a source coupled to ground; and
- a second pull-down device having a gate coupled to a data input signal, a drain coupled to the complement output node and a source coupled to ground.
- 6. (Original) The predriver circuit of claim 1, wherein the pull-down circuit further comprises:
 - a first device coupled between the output node and ground; and a second device coupled between the complement output node and ground.
 - 7. (Original) The predriver circuit of claim 6, wherein the first device comprises: a gate and a drain coupled to the output node; and a source coupled to ground.

- 8. (Original) The predriver circuit of claim 6, wherein the second device comprises: a gate and a drain coupled to the complement output node and a source coupled to ground.
- 9. (Original) The predriver circuit of claim 2, further comprising:

a first pull-up device cross-coupled to a first pull-down device to receive a data input signal and to charge the output node and the complement output node in opposite directions; and

a second pull-up device cross-coupled to a second pull-down device to receive a complement data input signal and to charge the output node and the complement output node in opposite directions to generate the differential predriver signal pair.

- 10. (Original) The predriver circuit of claim 1, wherein the first and second pull-up devices comprise NMOS devices and the first and second pull-down devices comprise NMOS devices.
- 11. (Currently Amended) An output driver circuit, comprising:
 a pull-up circuit having at least one pull-up device of a first device type; and
 a pull-down circuit having including at least one pull-down device of the first device type
 having a source coupled to ground, the pull-up circuit and the pull-down circuit to charge an output
 node and a complement output node in opposite directions to generate a differential predriver signal
 pair.
- 12. (Original) The output driver circuit of claim 11, wherein the pull-up device is cross-coupled to the pull-down device.
- 13. (Original) The output driver circuit of claim 11, wherein the pull-up device and the pull-down device comprise NMOS devices.
- 14. (Original) The output driver circuit of claim 11, wherein the pull-up circuit comprises:

a first pull-up device having a gate coupled to a data input signal, a drain coupled to a power supply and a source coupled to the output node; and

a second pull-up device having a gate coupled to a complement input signal, a drain coupled to a power supply and a source coupled to the complement output node.

15. (Original) The output driver circuit of claim 11, wherein the pull-down circuit comprises:

a first pull-down device having a gate coupled to a complement input signal, a drain coupled to the output node and a source coupled to ground; and

a second pull-down device having a gate coupled to a data input signal, a drain coupled to the complement output node and a source coupled to ground.

- 16. (Original) The output driver circuit of claim 11, wherein the pull-down circuit further comprises:
 - a first device coupled between the output node and ground; and a second device coupled between the complement output node and ground.
 - 17. (Original) The output driver circuit of claim 16, wherein the first device comprises: a gate and a drain coupled to the output node; and a source coupled to ground.
- 18. (Original) The output driver circuit of claim 16, wherein the second device comprises:

a gate and a drain coupled to the complement output node and a source coupled to ground.

19. (Original) The output driver circuit of claim 12, further comprising: a first pull-up device cross-coupled to a first pull-down device to receive a data input signal and to charge an output node and a complement output node in opposite directions; and

a second pull-up device cross-coupled to a second pull-down device to receive a complement data input signal and to charge the output node and the complement output node in opposite directions to generate the differential predriver signal pair.

- 20. (Original) The output driver of claim 11, wherein the first and second pull-up devices comprise NMOS devices and the first and second pull-down devices comprise NMOS devices.
 - 21. (Currently Amended) An electronic system comprising:

a printed wiring board on which a serial bus is formed, an integrated circuit (IC) chip package being operatively installed on the board to communicate using the serial bus, the package having an IC chip that includes a logic function section and an I/O section as an interface between the logic function section and the serial bus, the I/O section having an output driver in which a predriver includes a pull-up circuit having at least one pull-up device of a first device type, and a pull-down circuit having at least one pull-down device of the first device type, the pull-up circuit and the

pull-down circuit to charge an output node and a complement output node in opposite directions to generate a differential predriver signal pair to open/close a pair of line driver switches to generate a differential output driver signal pair,

wherein the pull-up device is cross-coupled to the pull-down device.

- 22. (Original) The electronic system of claim 21, wherein the logic function section is a microprocessor.
- 23. (Original) The electronic system of claim 21, wherein the logic function section is a memory controller.
- 24. (Original) The electronic system of claim 21, wherein the logic function section is a bus bridge.
- 25. (Original) The electronic system of claim 21, wherein the logic function section is an I/O controller.
- 26. (Currently Amended) An article comprising a machine readable carrier medium carrying data which, when loaded into a computer system memory in conjunction with simulation routines, provides functionality of a model comprising:

a pull-up circuit having at least one pull-up device of a first device type; and

a pull-down circuit having including at least one pull-down device of the first device type having a source coupled to ground, the pull-up circuit and the pull-down circuit to charge an output node and a complement output node in opposite directions to generate a differential predriver signal pair.

- 27. (Original) The article of claim 26, wherein the pull-down device is cross-coupled to the pull-down device.
- 28. (Original) The article of claim 26, wherein the pull-up device and the pull-down device comprise NMOS devices.
- 29. (Original) The article of claim 26, further comprising: a first pull-up device cross-coupled to a first pull-down device to receive a data input signal; and

a second pull-up device cross-coupled to a second pull-down device to receive a complement data input signal.

30. (Original) The article of claim 26, wherein the first and second pull-up devices comprise NMOS devices and the first and second pull-down devices comprise NMOS devices.